

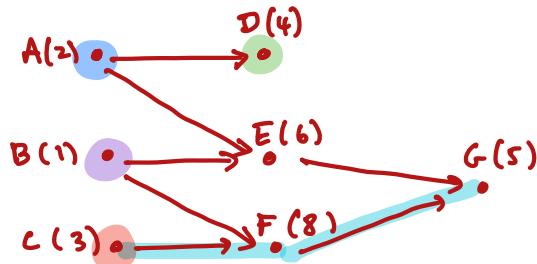
**Goal:** Learn how to construct a schedule, given a priority list and **document your thinking**. Learn strategies for making a priority list.

1. Create an associated digraph. Find a critical path and critical time.

label/task	time	dependence
A	2	
B	1	
C	3	
D	4	A
E	6	A,B
F	8	B,C
G	5	E,F

critical path: C → F → G

critical time: 16

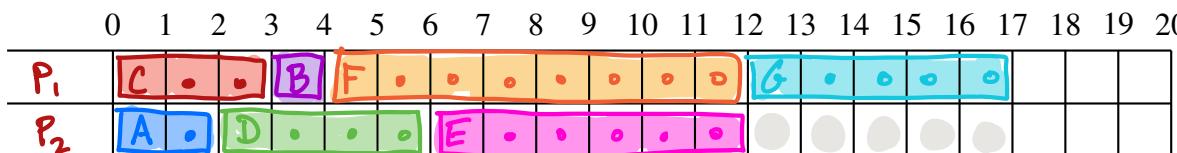


2. Construct a schedule with two processors using the priority list below.

F E G D C A B

\* At  $t=2$ , D & B are able to be assigned. We assign D first!

time	0	2	3	4	6	12	17	
done		A	C	B	D	F, E	G	
ready	C, A, B	D, B	B	F, E	E	G		← everything listed



How long did this schedule take? 17

Is this the best possible? No - Critical time is 16

How much idle time was there? 5 units

3. Decreasing Time Algorithm

List tasks in order from longest to shortest (so, assign longer tasks before shorter tasks)

F(8), E(6), G(5), D(4), C(3), A(2), B(1)

oh look!

